



University College Dublin
Ireland's Global University



ME CIVIL, STRUCTURAL & ENVIRONMENTAL ENGINEERING (TWO YEARS FULL TIME)

This programme prepares graduates to work as professional engineers in the broad field of infrastructural design, construction and management. Graduates will satisfy the academic requirements for the title of Chartered Engineer. You can choose a specialisation either in civil, structural or environmental engineering and as

such the range of module options is extensive. The programme is delivered by a culturally diverse group of internationally renowned academic staff. The ME programme is professionally accredited by Engineers Ireland and recognised by the Washington Accord for Chartered Engineer status.



TOP INTERNATIONAL RANKING

This programme is delivered by a highly research intensive school, which is in the top 200 in the QS world subject rankings.

COURSE CONTENT AND STRUCTURE

120 credits
taught master's

65 credits
taught modules

30 credits
work placement

25 credits
research project

Modules include:

- Case Studies
- Civil Engineering Systems
- Construction Management
- Design Project
- Geotechnical Engineering
- Highway Engineering
- Innovation Leadership
- Quantitative Methods for Engineers
- Structural Analysis, Design & Specification
- Water Engineering

Optional modules include:

- Advanced Environmental Economics
- Advanced Structural Analysis and Design
- Applied Statistical Modelling

- Bridge Engineering
- Computational Continuum Mechanics I
- Creative Design and Idea Development
- Environmental Engineering and Reliability
- Environmental Impact Assessment (Biology & Environmental Sci)
- Environmental Legislation & Regulations
- Fibre Reinforced Composites
- Geographical Information Systems
- Hydraulic Engineering Design
- Innovation Leadership
- Integrated Municipal Solid Waste Management
- Introduction to Environmental

- Science
- Peer Assisted Tutoring in CSEE
- Professional Engineering Finance
- Professional Engineering Management
- Realising Built Projects
- Soil Mechanics and Geotechnical Engineering
- Soil-Structure Interaction
- Structural Design (Buildings)
- Structural Dynamics
- Transport Operations and Planning
- Transportation Engineering
- Unit Treatment Process in Water Engineering
- Water, Waste and Environmental Modelling
- Waste management

WHY STUDY AT UCD?



Professional Work Experience

6-8 month Professional Work Experience internship opportunity



Tradition

Established 1854, with 160 years of teaching and research excellence



Global profile

UCD is ranked in the top 1% of higher education institutions worldwide



Global community

Over 8,000 International students from over 139 countries study at UCD



Global careers

Degrees with high employability; dedicated careers support; two-year stay-back visa (for non-EU students)



Safety

Modern parkland campus with 24-hour security, minutes from Dublin city centre



CAREER OPPORTUNITIES

Graduates from the programme will find employment as engineers in the private sector (e.g., engineering consultancy, engineering design, project management, civil engineering contractors), in the public sector (e.g., local government, higher education sector), and in the non-governmental sector (e.g., environmental advocacies, NGOs), or may wish to pursue further qualifications (e.g., PhD, MBA) to become even more specialised.

Graduates will be equipped with the skills that allow them to be lifelong learners, whether in the pursuit of knowledge for personal use or in connection with their engineering careers. Employers of civil, structural and environmental engineers include commercial firms, engineering consultancies, government agencies, and non-governmental organisations, all well known in Ireland and many with global operations. Some of these include:

- AECOM
- Arup
- Environmental Protection Agency
- Local Authorities
- Nicholas O'Dwyer
- RPS Group
- SISK



GRADUATE PROFILE

Larry Gaule

Ward & Burke Microtunnelling

From a very young age, I've always wanted to be a civil engineer. Studying Civil, Structural & Environmental Engineering at UCD has allowed me to apply practical knowledge to the real world through lectures, field trips, lab work and tutorials. Working as a civil engineer is a rewarding profession where the work you do influences where people work, learn, relax and live. As technology changes and as population growth continues, civil engineers adapt the resources and infrastructure we have to meet our needs. As part of the Professional Work Experience module, I worked with an Irish-owned company, Ward & Burke Microtunnelling in Canada. Before I even graduated I was offered a full-time position with them and I'm currently based in Toronto, installing underground tunnels for water and wastewater.

APPLY NOW

This programme receives significant interest so please apply early online at www.ucd.ie/apply

ENTRY REQUIREMENTS

- A 4-year bachelor's degree in Civil or Structural Engineering with a minimum upper second class honours (NFQ level 8) or international equivalent.
- Applicants whose first language is not English must also demonstrate English language proficiency of IELTS 6.5 (no band less than 6.0 in each element), or equivalent.
- Students who do not meet the IELTS requirement may wish to consider taking the Pre-Sessional or Pre-Masters Pathway. Full details <https://www.ucd.ie/alcl/programmes/pathways/>

INTERNATIONAL STUDENTS

- Option to stay in Ireland to seek employment and/or work for 2 years after graduating
- Approved by US Dept of Education for federally supported loans
- Apply for University non-EU Scholarships: www.ucd.ie/global/study-at-ucd/scholarshipsfinances/scholarships/
- Apply for College of Engineering & Architecture non-EU scholarship: www.ucd.ie/eacollege/study/noneus/scholarships

RELATED MASTER'S PROGRAMMES OF INTEREST

- MEngSc Structural Engineering
- MEngSc Water, Waste & Environmental Engineering

FEES

Fee information is available at www.ucd.ie/fees

CONTACT US

EU Students – Katie O'Neill E: eamarketing@ucd.ie T: +353 1 716 1781 W: www.ucd.ie/eacollege

International Students – E: michelle.mathews@ucd.ie T: +353 1 716 8500 W: www.ucd.ie/global